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## (54) STRUCTURE OF DECREASED TRANSMISSION LINE

### (57)Abstract:

PURPOSE: To decrease the line without losing electric characteristics by sectioning a section to be connected by a transmission line into plural short sections having different electric characteristics and setting the impedance and electric angle of the short sections to a prescribed value.

CONSTITUTION: In a section between connecting points 11, 12 to which a resonator 5 is connected, the characteristic impedance is  $Z_0$  and the electric angle should be set to  $\lambda/4$ . Thus, the part between the points 11 and 12 is sectioned into plural short sections  $S_1 \sim S_n$ , and the impedances  $Z_1 \sim Z_n$  and the electric angles  $\theta_1 \sim \theta_n$  of the short sections are set to prescribed values, then the characteristic impedance and the electric angle are satisfied totally. For example, the line width of a hot line of each section is changed to set optionally the impedance and electric angle.

